

Jascika Alberta Naa Adukwei Maclean

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SUMMARY

Results-oriented graduate student with experience in water/wastewater engineering, with strong attention to detail and communication skills, who delivers results quickly to a variety of projects and client needs.


EDUCATION

University of Nebraska-Lincoln

MS Civil Engineering - Environmental Engineering concentration

GPA: 3.982

Lincoln, NE

July 2022- May 2024 

Thesis: *Transport and fate of Neonicotinoids insecticides and Strobilurin fungicides in the environment.*

Kwame Nkrumah University of Science and Technology

Bachelor of Science in Civil Engineering

CWA: 74.9 (GPA: 3.55)

Kumasi, Ghana

September 2016 - August 2020

Thesis: *Institutional Wastewater Contaminant Removal by Different Soil Types Using Soil Column Study.*

EXPERIENCE

University of Nebraska - Lincoln, Department of Civil and Environmental Engineering

Lincoln, NE

Research Assistant

July 2022 – Present

- Collect water samples from the field to test for pesticides and emerging contaminants to estimate pollution extent.
- Submitted a 10-page research article on an environmental technique for quantifying pesticides in water and soil samples.
- Analyze lab data to identify concentration variations over time, assess the impact of matrices on results, and other factors.

EAP Consult Limited

Accra, Ghana

Assistant Engineer, Civil Engineering

August 2021 -June 2022

- Reviewed designs of pumping systems, water, and wastewater treatment facilities, as well as collection and distribution systems to ensure compliance with clients' standards and regulations.
- Performed construction observations of various water projects to ensure adherence to construction documents.
- Prepared technical memoranda and reports and documented construction progress to ensure successful completion of project.

Ghana Water Company Limited

Accra, Ghana

Assistant Engineer; Intern

October 2020 – August 2021; May 2019 –August 2019

- Coordinated with fellow engineers to evaluate bid documents, cost estimates and contractors' qualifications to make a recommendation to award several water supply and distribution projects.
- Developed and maintained project documentation, including project execution plans, technical memoranda, and generated cost estimates for water supply projects.
- Spearheaded interviews of Project Affected Persons (PAPs) to prepare Resettlement Action Plan Document and Environmental Impact Assessment (EIA) for permit applications.

Architectural and Engineering Service Limited

Accra, Ghana

Structural Intern

May 2018 – August 2018

- Used AutoCAD software to produce structural details of buildings in accordance with engineering standards.
- Conducted inspections and evaluations at construction sites to ensure construction complies with plans and specifications.
- Assisted with various administrative tasks and actively participated in meetings.

ACTIVITIES

University of Nebraska Lincoln

Lincoln, NE

Environmental Engineering Representative | Graduate Student Association

September 2022-August 2023

- Attend GSA meetings to discuss graduate student issues.
- Communicate and provide information about GSA meetings, events, and other opportunities to graduate students.
- Collaborate with department's GSA, graduate chair to discuss issues relating to the department.

Committee Member | UNL Convocations Committee

September 2022-August 2023

- Examined 17 funding request submissions to ensure it adheres to committee guidelines.
- Collaborated with members to allocate funds to grant recipients.

SKILLS

- Technical: Microsoft Office (Excel, Word, Project), AutoCAD, Civil3D, EPANET, MATLAB, ArcGIS Pro, WaterGEMS, Sigmaplot
- Languages: Proficient in English, Basic Knowledge in French